

ABSTRACT

5 A strategy for semiautomatic sequencing of argentinated  
(silver-containing) oligopeptides is described. The method of sequencing  
described is based on a search algorithm that identifies a triplet peak  
relationship in a product ion spectrum of the  $[M + Ag]^+$  ion of an  
oligopeptide. The ions that constitute a triplet are  $[b_n + OH + Ag]^+$ ,  $[b_n -$   
 $H + Ag]^+$ , and  $[a_n - H + Ag]^+$ , which are separated by 18 and 28  $m/z$  units,  
respectively. The difference in the  $m/z$  values of adjacent triplets identifies  
10 the residue that is "cleaved". Observation of the  $[y_n + H + Ag]^+$  ion  
containing the cleaved residue confirms the assignment.

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